



<b>CONTRACT DATA REQUIREMENTS LIST</b> (2 Data Items)										Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.											
A. CONTRACT LINE ITEM NO.			B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ OTHER _____						
D. SYSTEM/ITEM <b>M864E1- Feasibility</b>				E. CONTRACT/PR NO.			F. CONTRACTOR				
1. DATA ITEM NO. <b>A002</b>		2. TITLE OF DATA ITEM <b>SPECIAL INSPECTION EQUIPMENT DESCRIPTION</b>					3. SUBTITLE <b>Acceptance Inspection Equipment (AIE)</b>				
4. AUTHORITY (Data Acquisition Document No.) <b>DI-QCIC-81006 (TAILORED)</b>				5. CONTRACT REFERENCE <b>Section C para. C.6.9</b>			6. REQUIRING OFFICE <b>SFAE-AMO-CAS</b>				
7. DD 250 REQ		9. DIST STATEMENT REQUIRED		10. FREQUENCY <b>As Req'd</b>		12. DATE OF FIRST SUB. <b>SEE BLK. 16</b>		14. DISTRIBUTION			
8. APP CODE <b>A</b>				11. AS OF DATE		13. DATE OF SUBS. SUB. <b>SEE BLK. 16</b>		a. ADDRESSEE		b. COPIES	
16. REMARKS Tailoring Instructions: Use paragraph 10.4 for critical and major characteristics. Ignore the reference to Special Inspection Equipment in the Data Item Description.  Submit 30 days prior to FAT, or startup production, if FAT is not applicable. the Government will respond within 30 days of receipt of the original and any revisions required. Revisions are due within 10 days of receipt of Government response.  If a design was approved under a prior contract with this activity, and no changes were made, the contractor need only submit a copy of the prior approval correspondence for that design.  E-mail: rkolibas@pica.army.mil dkondas@pica.army.mil								Draft		Final	
								AMSTA-AR-QAA-R		1	
								SFAE-AMO-CAS		1	
15. TOTAL →										2	

  

1. DATA ITEM NO. <b>A003</b>		2. TITLE OF DATA ITEM <b>QUALITY DEFICIENCY REPORT</b>				3. SUBTITLE <b>Product Quality Deficiency Report (PQDR)</b>	
4. AUTHORITY (Data Acquisition Document No.) <b>DI-QCIC-80736</b>		5. CONTRACT REFERENCE <b>Section C para. C.6.8</b>				6. REQUIRING OFFICE <b>SFAE-AMO-CAS</b>	
7. DD 250 REQ <b>LT</b>		9. DIST STATEMENT REQUIRED		10. FREQUENCY <b>AS Req'd</b>		12. DATE OF FIRST SUB. <b>AS Req'd</b>	
8. APP CODE				11. AS OF DATE <b>AS Req'd</b>		13. DATE OF SUBS. SUB. <b>AS Req'd</b>	
16. REMARKS Electronic submission is acceptable by accessing the Government database for Army Electronic Product Support (AEPS) at the following website:  <a href="http://aeps.ria.army.mil">http://aeps.ria.army.mil</a>  In addition to the above web site, E-mail a copy to: rkolibas@pica.army.mil; dkondas@pica.army.mil						Draft	
						Final	
						Reg	
						Repro	
						1	
						1	
						1	
15. TOTAL →							

  

G. PREPARED BY Charles Catillo //s//		H. DATE <b>5 JUN 03</b>		I. APPROVED BY		J. DATE	
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<b>CONTRACT DATA REQUIREMENTS LIST</b> <i>(2 Data Items)</i>						<i>Form Approved</i> <b>OMB No. 0704-0188</b>	
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A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ OTHER _____			
D. SYSTEM/ITEM <b>M864E1-Feasibility</b>		E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO. <b>A004</b>		2. TITLE OF DATA ITEM <b>Accident/Incident Report</b>			3. SUBTITLE		
4. AUTHORITY <i>(Data Acquisition Document No.)</i> <b>DI-SAFT-81563</b>		5. CONTRACT REFERENCE <b>Section C para. C.6.11</b>			8. REQUIRING OFFICE <b>SFAE-AMO-CAS</b>		
7. DD 250 REQ <b>LT</b>		9. DIST STATEMENT REQUIRED		10. FREQUENCY <b>As Req'd</b>		12. DATE OF FIRST SUB. <b>As Req'd</b>	
8. APP CODE		11. AS OF DATE		13. DATE OF SUBS. SUB.		14. DISTRIBUTION	
16. REMARKS <b>BLOCK 16: SUBMIT ELECTRONICALLY TO:</b>  <b>jdonini@pica.army.mil</b> <b>rkolibas@pica.army.mil</b> <b>dkondas@pica.army.mil</b>				a. ADDRESSEE		b. COPIES	
				AMSTA-AR-FSA-P		Draft      Final	
				AMSTA-AR-QAA-R		Reg      Repro	
				SFAE-AMO-CAS			
15. TOTAL →						3	
1. DATA ITEM NO. <b>A005</b>		2. TITLE OF DATA ITEM <b>GOVERNMENT FURNISHED MATERIAL (GFM) CONSUMPTION REPORT</b>			3. SUBTITLE <b>Quarterly Reporting Of Government Supplied Material</b>		
4. AUTHORITY <i>(Data Acquisition Document No.)</i> <b>DI-MGMT-80438B</b>		5. CONTRACT REFERENCE <b>Section C para. C.6.12</b>			8. REQUIRING OFFICE <b>SFAE-AMO-CAS</b>		
7. DD 250 REQ <b>LT</b>		9. DIST STATEMENT REQUIRED		10. FREQUENCY <b>As Req'd</b>		12. DATE OF FIRST SUB. <b>As Req'd</b>	
8. APP CODE		11. AS OF DATE		13. DATE OF SUBS. SUB. <b>As Req'd</b>		14. DISTRIBUTION	
16. REMARKS The contractor shall provide a status of government supplied material. At a minimum, this shall include material balance at the start of contract, and material balance at the end of the contract. Material shall be identified by condition code and lot number where possible. The GFM inventory data file (Microsoft Excel) in contractor's format shall be submitted electronically.  <b>jdonini@pica.army.mil</b> <b>rkolibas@pica.army.mil</b> <b>dkondas@pica.army.mil</b>				a. ADDRESSEE		b. COPIES	
				AMSTA-AR-FSA-P		Draft      Final	
				AMSTA-AR-QAA-R		Reg      Repro	
				SFAE-AMO-CAS			
15. TOTAL →						3	
G. PREPARED BY <b>Charles Catillo //s//</b>		H. DATE <b>6 JUN 03</b>		I. APPROVED BY		J. DATE	

17. PRICE GROUP

18. ESTIMATED  
TOTAL PRICE

17. PRICE GROUP

18. ESTIMATED  
TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)					Form Approved OMB No. 0704-0188		
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A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ OTHER _____			
D. SYSTEM/ITEM M864B1-Feasibility		E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO.  A006		2. TITLE OF DATA ITEM  AMMUNITION DATA CARD (ADC)		3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80043A		5. CONTRACT REFERENCE Section C para. C.6.10		6. REQUIRING OFFICE SFAE-AMO-CAS			
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED  N/A		10. FREQUENCY As Req'd		12. DATE OF FIRST SUB. See Block 16	
8. APP CODE		11. AS OF DATE See Block 16		13. DATE OF SUBS. SUB. As Req'd		14. DISTRIBUTION	
16. REMARKS ADCs shall be prepared IAW MIL-STD-1168A and electronic submission shall be accomplished by accessing the Worldwide Ammunition Data Repository Program (WARP) which is located on the Army Electronic Product Support (AEPS) at <http://aeps.ria.army.mil>  *Hard copy ADCs shall be generated from the WARP program, signed and dated by the representative of the Government Agency Responsible for Acceptance (GARA), usually the DCMA QAR. The hard copy ADC shall accompany each lot shipment.  ** When ballistic tests at Government proving grounds are required, two hard copy ADCs generated from the WARP program, signed and dated by the GARA shall be sent to the proving ground with each lot shipment.  Submission shall commence with the first deliverable lot and continue with each subsequent lot. ADCs shall include procurement acquisition numbers for each applicable RFW,RFD, and ECP listed on the card.  Email Distribution: rkolibas@pica.army.mil; jdonini@pica.army.mil; dkondas@pica.army.mil				a. ADDRESSEE		b. COPIES	
				Draft		Final Reg Repro	
				AMSTA-AR-QAA-R		1	
				AMSTA-AR-FSA-M		1	
				SFAE-AMO-CAS		1	
				15. TOTAL →			
G. PREPARED BY Charles Catillo //s//		H. DATE 5 JUN 03		I. APPROVED BY		J. DATE	

<b>CONTRACT DATA REQUIREMENTS LIST</b> <i>(2 Data Items)</i>						Form Approved OMB No. 0704-0188			
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A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ OTHER _____					
D. SYSTEM/ITEM <b>M864B1- Feasibility</b>		E. CONTRACT/PR NO.		F. CONTRACTOR					
1. DATA ITEM NO. <b>A007</b>		2. TITLE OF DATA ITEM <b>Critical Safety Item, Characteristic and Criticle Defect Report</b>			3. SUBTITLE				
4. AUTHORITY <i>(Data Acquisition Document No.)</i> <b>DI-SAFT-80970A</b>		5. CONTRACT REFERENCE <b>Section C para. C.6.3</b>			6. REQUIRING OFFICE <b>SFAE-AMO-CAS</b>				
7. DD 250 REQ <b>LT</b>		9. DIST STATEMENT REQUIRED <b>N/A</b>		10. FREQUENCY <b>As Req'd</b>		12. DATE OF FIRST SUB. <b>As Req'd</b>			
8. APP CODE		11. AS OF DATE		13. DATE OF SUBS. SUB. <b>R/ASR</b>		14. DISTRIBUTION			
16. REMARKS Submit within 2 calender days of the occurence of QA Critical Defect. The Government will respond within 5 days of receipt of originals and any revisions required. Submit revisions within 3 days of government comments.  If the report or any portion of the report is disapproved, the disapproved section shall be revised and resubmitted. Only the disapproved portions of the report require revisions and resubmission.  <b>BLOCK 14: SUBMIT ELECTRONICALLY TO</b> <b>rkolibas@pica.army.mil</b> <b>dkondas@pica.army.mil</b>				a. ADDRESSEE		b. COPIES			
						Draft		Final	
						Reg		Repro	
				AMSTA-AR-QAA				1	
				SFAE-AMO-CAS				1	
				15. TOTAL →					
1. DATA ITEM NO. <b>A008</b>		2. TITLE OF DATA ITEM <b>CONTRACTOR'S STANDARD OPERATING PROCEDURES</b>			3. SUBTITLE <b>RADIOGRAPHIC PROCEDURES</b>				
4. AUTHORITY <i>(Data Acquisition Document No.)</i> <b>DI-MGMT-81580</b>		5. CONTRACT REFERENCE <b>Section C para. C.6.6</b>			6. REQUIRING OFFICE <b>SFAE-AMO-CAS</b>				
7. DD 250 REQ <b>LT</b>		9. DIST STATEMENT REQUIRED		10. FREQUENCY <b>As Req'd</b>		12. DATE OF FIRST SUB. <b>As Req'd</b>			
8. APP CODE		11. AS OF DATE <b>As Req'd</b>		13. DATE OF SUBS. SUB. <b>As Req'd</b>		14. DISTRIBUTION			
16. REMARKS The radiographic procedures and standards shall be submitted in contractor format, for review and approval, in Microsoft Word electronically to:  <b>rkolibas@pica.army.mil</b> <b>jdonini@pica.army.mil</b> <b>dkondas@pica.army.mil</b>  Sample radiographs, for review, shall be mailed to:  <b>Commander, ARDEC</b> <b>Attn: AMSTA-AR-QAA-R, Rebecca Kolabis</b> <b>Bldg. 62</b> <b>Picatinny Arsenal, NJ 07806-5000</b>				a. ADDRESSEE		b. COPIES			
						Draft		Final	
						Reg		Repro	
				AMSTA-AR-QAA				1	
				AMSTA-AR-FSA-P				1	
				SFAE-AMO-CAS				1	
				15. TOTAL →					
G. PREPARED BY <b>Charles Catillo //s//</b>		H. DATE <b>5 JUN 03</b>		I. APPROVED BY		J. DATE			

# CONTRACT DATA REQUIREMENTS LIST

Form Approved  
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER _____
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D. SYSTEM/ITEM M864E1 Feasibility	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. A009	2. TITLE OF DATA ITEM Foreign - Explosive Hazard Classification Data	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508A	5. CONTRACT REFERENCE SOW c.6.13	6. REQUIRING OFFICE AMSTA-AR-QAW-S
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7. DD 250 REQ	9. DIST STATEMENT REQUIRED A	10. FREQUENCY As Required	12. DATE OF FIRST SUB.	14. DISTRIBUTION									
8. APP CODE		11. AS OF DATE	13. DATE OF SUBS. SUB.	<table border="1"> <tr> <th>a. ADDRESSEE</th> <th colspan="2">b. COPIES</th> </tr> <tr> <td></td> <td>Draft</td> <td>Final</td> </tr> <tr> <td></td> <td>Reg</td> <td>Repro</td> </tr> </table>	a. ADDRESSEE	b. COPIES			Draft	Final		Reg	Repro
a. ADDRESSEE	b. COPIES												
	Draft	Final											
	Reg	Repro											

16. REMARKS Forward the Hazard Classification Documents to the U.S. Army TACOM-ARDEC, ATTN: AMSTA-AR-QAW-S, Picatinny Arsenal, NJ 07806-5000	AMSTA-AR-QAW-S	1	
	AMSTA-AR-FSA-P	1	
	15. TOTAL ----->	2	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
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7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.	14. DISTRIBUTION									
8. APP CODE		11. AS OF DATE	13. DATE OF SUBS. SUB.	<table border="1"> <tr> <th>a. ADDRESSEE</th> <th colspan="2">b. COPIES</th> </tr> <tr> <td></td> <td>Draft</td> <td>Final</td> </tr> <tr> <td></td> <td>Reg</td> <td>Repro</td> </tr> </table>	a. ADDRESSEE	b. COPIES			Draft	Final		Reg	Repro
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	Reg	Repro											

16. REMARKS			
	15. TOTAL ----->		

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
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7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.	14. DISTRIBUTION									
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	Draft	Final											
	Reg	Repro											

16. REMARKS			
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1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
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7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUB.	14. DISTRIBUTION									
8. APP CODE		11. AS OF DATE	13. DATE OF SUBS. SUB.	<table border="1"> <tr> <th>a. ADDRESSEE</th> <th colspan="2">b. COPIES</th> </tr> <tr> <td></td> <td>Draft</td> <td>Final</td> </tr> <tr> <td></td> <td>Reg</td> <td>Repro</td> </tr> </table>	a. ADDRESSEE	b. COPIES			Draft	Final		Reg	Repro
a. ADDRESSEE	b. COPIES												
	Draft	Final											
	Reg	Repro											

16. REMARKS			
	15. TOTAL ----->		

G. PREPARED BY Edward Davila //s//	H. DATE 06/13/03	I. APPROVED BY	J. DATE
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17. PRICE GROUP

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A. CONTRACT LINE ITEM NO. B. EXHIBIT C. CATEGORY:  
TDP \_\_\_\_\_ TM \_\_\_\_\_ OTHER \_\_\_\_\_

D. SYSTEM/ITEM M864E1 Feasibility E. CONTRACT/PR NO. F. CONTRACTOR

1. DATA ITEM NO. A010 2. TITLE OF DATA ITEM Explosive Hazard Classification Data 3. SUBTITLE

4. AUTHORITY (Data Acquisition Document No.) DI-SAFT-81299B (tailored) 5. CONTRACT REFERENCE SOW c.6.13 6. REQUIRING OFFICE AMSTA-AR-QAW-S

7. DD 250 REQ 9. DIST STATEMENT REQUIRED 10. FREQUENCY As Required 12. DATE OF FIRST SUB. As Required 14. DISTRIBUTION  
8. APP CODE 11. AS OF DATE 13. DATE OF SUBS. SUB. a. ADDRESSEE b. COPIES  
Draft Final  
Reg Repr

16. REMARKS  
Provide data for Interim Hazard Classification 60 days prior to delivery of hazardous materials/items.

The Hazardous Classification data required by paragraph 3.2.16 for energetic materials/items and test data is as follows:

- (1) Supplier or manufacturer
- (2) Drawing, sketch, illustration, etc. of the item and of all energetically loaded components and subcomponents.
- (3) A chart identifying each energetically loaded component and subcomponent within the item, broken out to show all energetic materials within the item. This chart should include the weights (including weight tolerances) of all the energetic materials within the item components and subcomponents.
- (4) Other information that is pertinent to the hazard classification.
- (5) Recommend Interim Explosive Hazard Classification. This will consist of:

- a. DOD Hazard Class/Div/SCG:
- b. DOT Hazard Class:
- c. UN Serial Number:
- d. DOT Container Marking (PSN):  
UN:
- e. DOT Label: Explosive
- f. Packaging Method:
- g. Explosive Weight for QD Determination; lbs(kgs):

## (6) Rationale for Classification:

- a. Explosive substances (i.e., Bulk propellant, bulk explosive or pyrotechnic substances). This shall consist on one or more of the following:

15. TOTAL -----> 2

G. PREPARED BY Edward Davila //s// H. DATE 06/13/03 I. APPROVED BY J. DATE

17. PRICE GROUP

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TOTAL PRICE

CDRL Remarks:

Blk 16. Provide data for Interim Hazard Classification 60 days prior to delivery of hazardous materials/items. The hazard classification data required by paragraph 3.2.16 for energetic materials/items and test data, is as follows:

- (1) Supplier or manufacturer.
- (2) Drawing, sketch, illustration, etc. of the item and of all energetically loaded components and subcomponents.
- (3) A chart identifying each energetically loaded component and subcomponent within the item, broken out to show all energetic materials within the item. This chart should include the weights (weight tolerances) of all the energetic materials within the item components and subcomponents.
- (4) Other information that is pertinent to the hazard classification.
- (5) Recommend Interim Explosive Hazard Classification. This will consist of:
  - a. DOD Hazard Class/Div/SCG:
  - b. DOT Hazard Class:
  - c. UN Serial Number:
  - d. DOT Container Marking (PSN):  
UN:  
Part Number/NSN:
  - e. DOT Label: Explosive
  - f. Packaging Method:
  - g. Explosive Weight for QD Determination; lbs (kgs):
- (6) Rationale for Classification:
  - a. Explosive Substances (i.e., Bulk propellant, bulk explosive or pyrotechnic substances). This shall consist on one or more of the following:
    - (a.1) The transport test data described in para 5.4 of the Army Technical Bulletin (TB) 700-2 or equivalent test data, and para 7-3 of TB 700-2 if 1.3 is desired.
    - (a.2) The date indicated that the substances have been examined and assigned a recommended shipping description and hazard class by the Bureau of Explosives (BOE) or the Bureau of Mines (BOM), U.S. Department of the Interior, and classed and approved by the Associate Director for Hazardous Material Regulation (HMR). Included with this documentation, should be the test data that was submitted to either the BOE or the BOM and the HMR letter assigning an EX number. If available, the DOT letter of competent authority should be included.



CDRL Remarks (cont'd):

b. Explosive Items: (i.e., Ammunition, missiles, warhead, all components/assemblies/subassemblies containing energetic materials and etc.). This shall consist of the following:

(b.1) Either test data in accordance with Army Technical Bulletin (TB) 700-2 or equivalent test data to support classifications and an evaluation of tests results or documentation establishing an analogy with an AMC or Tri-Service Classified Item.

(b.2) A section specifying the paragraph(s) of 49 Code of Federal Regulations which best defines the item/material.

(b.3) A section specifying the paragraph(s) of the DOD Contractor's Safety Manual for Ammunition and Explosives (DOD 4145.26M) which best describes the item/material.

(b.4) A section specifying the paragraph(s) of the DOD Ammunition and Explosives Safety Standards (DOD 6055.9-STD) which best describes the item/material.

(7) Hazard Characteristic: This shall refer to the hazards involved in the handling, shipping and storage related to the production/procurement of a hazardous commodity. A hazardous commodity shall refer to the energetic materials and loaded parts that form a part or are uniquely related to the production/ procurement of the commodity. Hazard Characteristics shall be established by generating and/or compiling sufficient safety data to reveal the hazards involved in a production/procurement (Hazardous Item Contract) for a hazardous commodity and all related hazardous material/components/assemblies. Hazard characteristics are generally available for "standard" items of ammunition and explosives. Data on these items are not required. Standard items shall refer to commodities and related materials, components and assemblies that have been involved in type classification or interim/final qualification actions. Data shall contain the following:

a. Data: This shall consist of the hazard classification data required and additional data required to determine hazard characteristics. Where the data requirements are not applicable because of size, shape, configuration, etc., it will be reported as "NA".

(1) Sensitivity: Applicable to materials in either powder form, gel form or liquid. Test shall demonstrate reaction of material to a specific stimuli and that reaction or value shall be reported. The apparatus used shall be defined. Comparison values for familiar materials, preferable bracketing values, shall also be provided. The results required are to define the reaction to the following stimuli:

CDRL Remarks (cont'd)

	<u>Test</u>	<u>Reference Document</u>	<u>Test Procedure Description</u>
(a)	Bureau of Explosives impact machine (UN Test 3(a)(i))	TB 700-2	Para. 5-4.a
(b)	ABL friction test (UN Test 3(b)(iii))	TB 700-2	Para. 5-4.b
(c)	Thermal stability test @ 75°C (UN Test 3(c))	TB 700-2	Para 5-4.c
(d)	Small-scale burning test (UN Test 3(d)(i)) (Three samples should be tested)	TB 700-2	Para 5-4.d
(e)	Gap test for solids and liquids (UN Test 2(a)(iii))	TB 700-2	Para 5.3.a
(f)	Cap sensitivity test (UN Test 5(a))	TB 700-2	Para 5-6.a
(g)	Electrostatic Discharge Sensitivity Test	MIL-STD-1751A	Group 1030 Test Methods
(h)	Self-heating (DTA/DSC)	MIL-STD-1751A	Group 1070 Test Methods
(i)	Explosivity of Dust	ASTM	Method E 1515-00
(j)	Explosion Temperature	MIL-STD-650	Method 506.1

(2) To meet 1.3 Interim Hazard Classification the substance must pass:

<u>Test</u>	<u>Reference Document</u>	<u>Test Procedure Description</u>
Gap Test for Solids and Liquids	TB-700-2	Para. 5-3.a
Cap Sensitivity Test	TB-700-2	Para. 5-6.a

(3) Additional Data requirements: Additional data required for each component assembly to determine hazards shall be obtained from tests, literature and reported as indicated.

## CDRL Remarks (cont'd)

(a) Flash Point: Present flash point in both centigrade and fahrenheit obtained in closed cup tests. Where open cup flash point is used, designate "OC" following value.

(b) Decomposition Products: Indicate the hazardous products and the type of hazard (toxic, flame, and explosion) produced by thermal decomposition.

(c) Flammability or Explosive Limits: Give flammable or explosive limits or both by volume of gas or vapor in air based upon normal atmospheric temperature and pressure.

(4) Hazards: The fire, explosion and toxic hazards, where applicable shall be presented with documentation or references or both supporting rationale.

(a) Fire: Specify an adjective rating to indicate the fire hazard, based on ease of ignition, difficulty in extinguishing blaze, and propagation of flame from ignition source (i.e., flammable gases, highly volatile flammable liquids).

- Severe: Very flammable and easily ignited. Extremely difficult to extinguish, instantaneous propagation of flame from ignition source (i.e., flammable gases, highly volatile flammable liquids).

- High: Ignitable under normal temperature conditions or rapid burning rate due to own oxygen supply or spontaneously ignited. Requires immediate deluge to extinguish or prevent propagation of flame (propellants, photoflash powders, white phosphorous, acetone, gasoline).

- Moderate: Requires heating before ignition can be obtained. Burning rate or propagation of flame is observable and controllable with standard fire-fighting procedures (i.e., solid fuels, kerosene).

- Low: Difficult to ignite. Requires high temperatures and long exposure. May not sustain burning without continued heating. Material that readily reacts to flame-producing items (oxidizers, linseed oil).

- None: Nonflammable. Difficult to react to form flammable mixtures.

(b) Explosion: Indicate by an adjective rating the hazard of explosion (a chemical or physical change of state with instantaneous transfer of considerable energy into kinetic form) with regard to susceptibility to initiation and severity of the occurrence.

## CDRL Remarks (cont'd)

- Severe: Capable in themselves of detonation or deflagration in mass. Very sensitive to heat, shock, and electrostatic discharge and requires precautionary measures to avoid accidental exposure to these stimuli during normal handling operations (primary explosives, primer mixtures).

- High: Capable in themselves of detonation or deflagration. Relatively insensitive to heat, shock, or electrostatic discharge. Generally requires strong initiating source or heating under confinement to detonate in mass. Explosion presents extreme hazard from blast or fragments or both (secondary explosives, bombs, mines, grenades).

- Moderate: Not capable in themselves of detonation. Can readily react to form explosive mixtures. Explosion can occur from rapid deflagration of mists or dusts (powerful oxidizing material, magnesium powder, flammable gases, highly volatile liquids).

- Low: Not capable of detonation or deflagration. Becomes unstable at elevated pressures and temperatures. Package, amount, or form, prevents or contains release of any substantial amount of energy. Can react to form hazardous mixtures (oxidizers, most metallic powders, combustible materials, explosive bellows, piston actuator).

- None: Not capable of detonation, deflagration, or reaction to form explosive mixes. Stable even at elevated temperatures.

(c) Toxicity: Indicate an adjective rating to express the toxicity under normal conditions of handling and exposure (including the mode of entry and, when available, and Threshold Limit Value (TLV) or Lethal Dose 50 (LD50) or both as follows:

- Severe: Can cause death or irreversible injury with very short exposure even if given prompt medical attention. Requires special protective clothing and special handling to protect against hazard.

- High: Can cause death or serious injury with exposure to relatively longer periods of time or intake of small amounts. Requires protective clothing and procedures to avoid contact. Prompt medical attention is required. Medical surveillance may be a requirement.

- Moderate: Can cause injury, incapacitation or possible death with sustained exposure or intake of substantial amounts. Concentrations and duration of exposure have to be controlled.

## CDRL Remarks (cont'd)

Protective clothing and procedures are recommended but may not be required. Prompt removal or neutralization of contacted area may be required to prevent injury.

- Low: Can cause only minor injury, irritation, or discomfort. Removal from exposure generally alleviates condition. Cleanliness, ventilation and protective clothing may be employed to limit or avoid exposure.

- None: Presents no health hazard under ordinary conditions.

(5) In-Process Hazard Classification: The in-process hazard is defined as the hazard presented by the item while it is unpacked and being handled, not the hazard associated with making the item. The in-process hazard classification and the shipping, storage hazard classification may or may not be the same. The packaging for an item may change the hazard classification. The in-process hazard classification is to be identified (except for liquid propellants) as follows:

- Class 1.1 Mass Detonating
- Class 1.2 Non-mass Detonating, Fragment-Producing
- Class 1.3 Mass Fire
- Class 1.4 Moderate Fire, No Blast
- Class 1.5 Explosive substance very insensitive (with)  
mass explosion hazard
- Class 1.6 Explosive article, extremely insensitive

The in-process hazard classification is to be identified for liquid propellants as follows:

- Group IV Mass Detonating
- Group III Container Rupture, Fragment Producer
- Group II Strong Oxidizers, Serious Fires
- Group I Least (Fire) Hazard

## (6) Additional Hazards Data:

- Any special precautions particular to the specified item not reported anywhere else in data report.

- Any additional data, information necessary to alert to or clarify a specific hazard.

- Any synonyms that can be used to describe the item (i.e., chemical name, formula, commercial brand name, federal stock numbers).